

3M™ TufQUIN TFT 3-1-3

Triplex Electrical Insulation Paper

Data Sheet

August 2012

3M™ TufQUIN TFT Triplex Electrical Insulation Paper is TufQUIN Hybrid Insulating Paper bonded to both sides of polyester (PET) film. TufQUIN TFT Paper is qualified for use as major ground insulation in electrical insulation systems rated through Class 200(N) per UL 1446 and IEC Std. 61857. It is suitable for applications including slot cell, phase, and wedge insulation in motors and generators as well as ground and layer insulation in dry-type transformers. TufQUIN TFT laminates are well-suited for automatic insertion applications, as well as heavy-duty winding applications. 3M Innovative Paper Technologies UL Recognized Insulation Systems (File No. 65007) may be found on UL's Electrical Insulation Systems Database at <http://www.ul.com/eis>.

		ASTM Test Method	TufQUIN TFT 3-1-3
Nominal Thickness	mm mil	D-645	0.18 7
Basis Weight	g/m ² lb/yd ²	D-202	235 0.43
Tensile Strength, MD	lb/inch N/cm	D-828	59 103
Tensile Strength, CD	lb/inch N/cm	D-828	45 79
Tensile Elongation, MD	%	D-828	25
Tensile Elongation, CD	%	D-828	31
Elmendorf Tear, MD	g N	D-689	350 3.4
Elmendorf Tear, CD	g N	D-689	990 907
Dielectric Breakdown Voltage	kV	D-149	6

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